

Please amend the Claims as follows:

Please cancel Claims 58, 59, and 67-70.

- 1-60. (Cancelled)
- 61-65. (Not entered)
- 66-70. (Cancelled)

Please add new Claims 71-87 as follows.

- 71. (New) A method of detecting amplification of a gene in mammary tissue from a human, said method comprising detecting whether amplification of a gene that encodes a protein comprising amino acid sequence SEQ ID NO:1 occurs, wherein amplification of the gene in said mammary tissue from said human relative to normal human mammary tissue is indicative of the presence of human mammary carcinoma in said mammary tissue from said human.
- 72. (New) The method of Claim 71, wherein said gene comprises nucleic acid sequence SEQ ID NO:2.
- 73. (New) The method of Claim 71, wherein said gene encodes a protein comprising the protein encoded by the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.
- 74. (New) The method of Claim 71, wherein said gene comprises the nucleic acid sequence of the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.
- 75. (New) A method of detecting amplification of a gene in mammary tissue from a human, said method comprising analyzing for amplification of DNA of a gene that encodes a protein comprising amino acid sequence SEQ ID NO:1, wherein amplification of the gene in said mammary tissue from said human relative to normal human mammary tissue is indicative of the presence of human mammary carcinoma in said mammary tissue from said human.
- 76. (New) The method of Claim 75, wherein said gene comprises nucleic acid sequence SEQ ID NO:2.

77. (New) The method of Claim 75, wherein said gene encodes a protein comprising the protein encoded by the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.
78. (New) The method of Claim 75, wherein said gene comprises the nucleic acid sequence of the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.
79. (New) A method of detecting amplification of a gene in mammary tissue from a human, said method comprising analyzing mRNA product of a gene that encodes a protein comprising amino acid sequence SEQ ID NO:1, wherein amplification of the gene in said mammary tissue from said human relative to normal human mammary tissue is indicative of the presence of human mammary carcinoma in said mammary tissue from said human.
80. (New) The method of Claim 79, wherein said gene comprises nucleic acid sequence SEQ ID NO:2.
81. (New) The method of Claim 79, wherein said gene encodes a protein comprising the protein encoded by the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.
82. (New) The method of Claim 79, wherein said gene comprises the nucleic acid sequence of the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.
83. (New) A method of detecting amplification of a gene in mammary tissue from a human, said method comprising analyzing protein product of a gene that encodes a protein comprising amino acid sequence SEQ ID NO:1, wherein amplification of the gene in said mammary tissue from said human relative to normal human mammary tissue is indicative of the presence of human mammary carcinoma in said mammary tissue from said human.
84. (New) The method of Claim 83, wherein said amplification is detected by reacting an antibody prepared against said protein with a protein product of said gene.
85. (New) The method of Claim 83, wherein said gene comprises nucleic acid sequence SEQ ID NO:2.

86. (New) The method of Claim 83, wherein said gene encodes a protein comprising the protein encoded by the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.
87. (New) The method of Claim 83, wherein said gene comprises the nucleic acid sequence of the Bam HI DNA fragment contained in the pUC12 subclone in the E. coli strain deposited under ATCC accession number 53408.